



# FortiGate Rugged 60D

## QuickStart Guide



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June 3, 2014

01-506-236464-20140603

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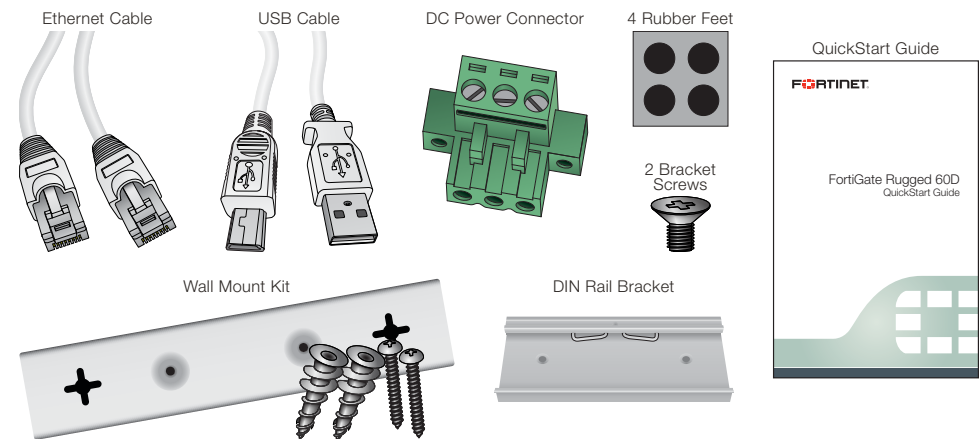
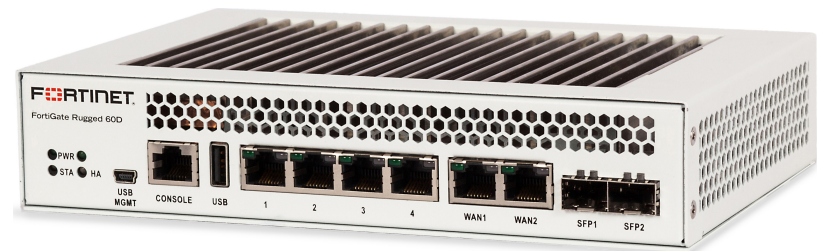
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# Package Contents

Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

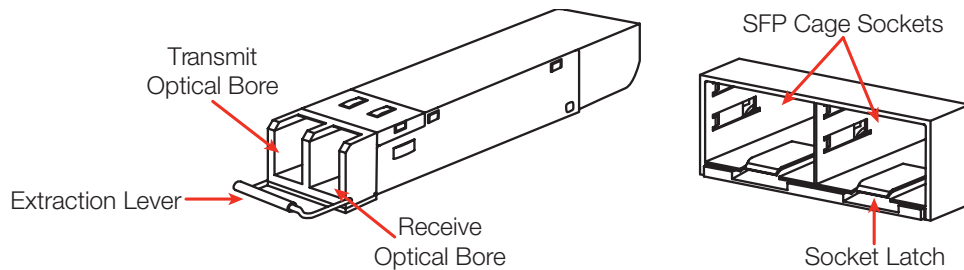
Your box contains the following:

FortiGate Rugged 60D	4 Rubber Feet
QuickStart Guide	Wall Mount Kit
Ethernet Cable	DIN Rail Bracket
USB Cable	2 Bracket Screws
DC Power Connector	



Note: Accessories may not be exactly as shown.

# SFP Transceivers



**Caution:** SFP transceivers are static sensitive devices. Use an ESD wrist strap or similar grounding device when handling transceivers.

**Caution:** Do not install or remove SFP transceivers while fiber-optic cables are still attached. This can cause damage to the cables, cable connectors, and the optical interfaces. It may also prevent the transceiver from latching correctly into the socket connector.

**Note:** Installing and removing SFP transceivers can shorten their useful life. Do not install or remove transceivers more than is necessary.

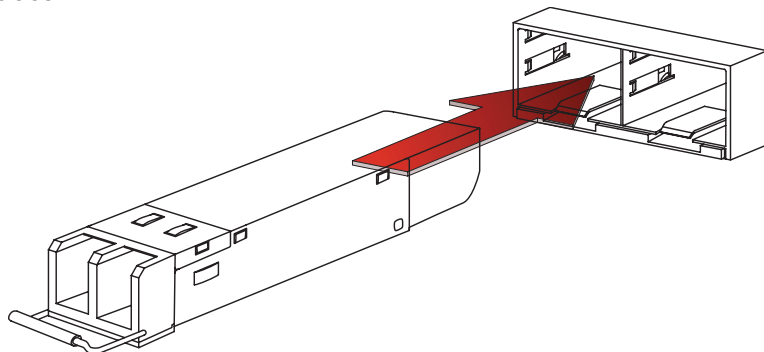
## To install the SFP transceivers:

1. Ensure that you are properly grounded.
2. Remove the caps from SFP cage sockets on the front panel of the unit.
3. Position the SFP transceiver in front of the cage socket opening and ensure that the transceiver is correctly oriented.

When the transceiver is correctly oriented, the extraction lever will be level with the socket latch.

**Note:** SFP cage socket orientation may vary. Ensure that the SFP transceiver module is correctly oriented each time that you are inserting a transceiver.

4. Hold the sides of the SFP transceiver and slide it into the cage socket until it clicks into place.

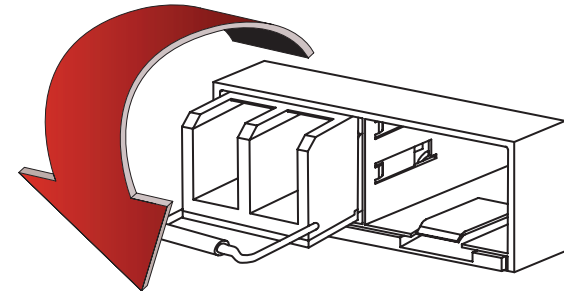


**Caution:** Do not force the SFP transceivers into the cage slots. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

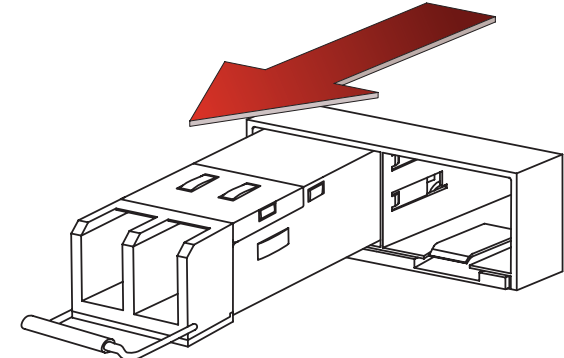
5. Press the transceiver firmly into the cage socket with your thumb.
6. Verify that the transceiver is latched correctly by grasping the sides of the transceiver and trying to pull it out without lowering the extraction lever.  
If the transceiver cannot be removed, it is installed and latched correctly.  
If the transceiver can be removed, reinsert it and press harder with your thumb.  
If necessary, repeat this process until the transceiver is securely latched into the cage socket.

## To remove the SFP transceivers:

1. Ensure that you are properly grounded.
2. If applicable, disconnect the fiber-optic cable from the transceiver connector and install a clean dust plug in the transceiver's optical bores.
3. Pull the extraction lever out and down to eject the transceiver.  
If you are unable to use your finger to open the lever, use a small flat-head screwdriver or other similar tool to open the lever.



4. Hold the sides of the transceiver and carefully pull it away from the cage socket.



5. Replace the cap on the SFP cage socket and place the removed SFP transceiver into an antistatic bag.

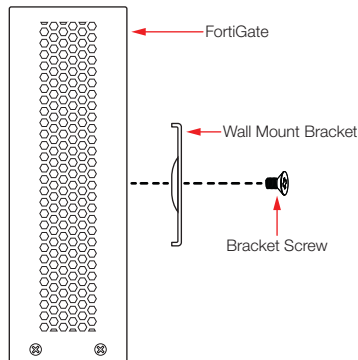
**Note:** Follow proper fiber-optic handling procedures when installing and removing SFP transceivers to ensure the devices remain clean and are not damaged.

# Mounting Your Device

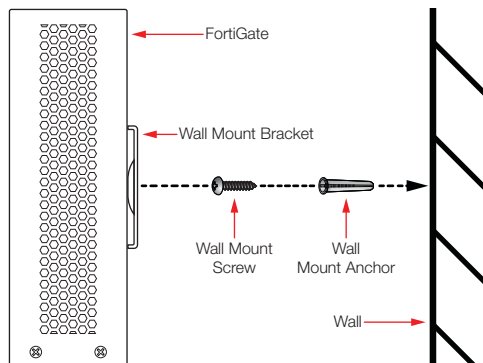
Using the provided hardware, the FortiGate device can be mounted on a wall or DIN rail, with the interfaces facing up or down as required. The device can also be mounted on a flat surface using the provided rubber feet.

## To attach the unit to a wall:

1. Select an appropriate location and, using the wall mount bracket in the provided wall mount kit, mark the location on the the wall where the anchors will be located.
2. Drill holes into the wall with an appropriately sized drill bit, then insert the provided anchors into the holes.
3. Screw the two screws provided in the wall mount kit into the two anchors, leaving enough of the screw exposed to ensure that the unit can be mounted on them.
4. Connect the wall mount bracket to the bottom of the device using the provided bracket screws.



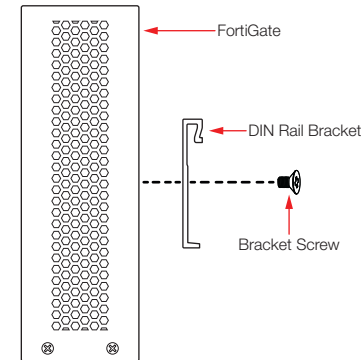
5. Mount the FortiGate device onto the screws and ensure that it is mounted securely.



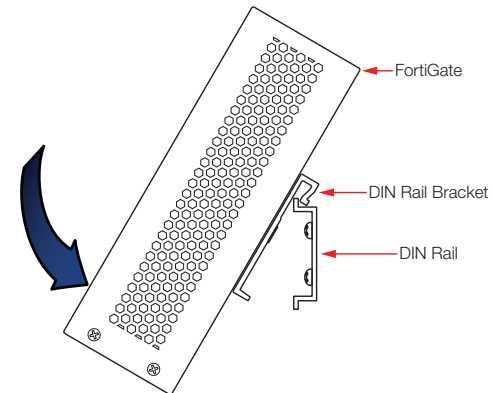
You can now proceed with connecting your FortiGate unit.

## To attach the unit to a DIN rail:

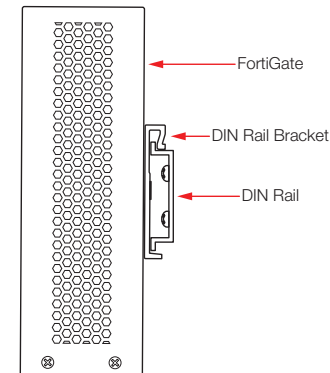
1. Connect the DIN rail bracket to the bottom of the device using the provided bracket screws.



2. Position the bottom of the device directly in front of the DIN rail, ensuring that the top of the DIN rail bracket hooks over the top of the DIN rail.



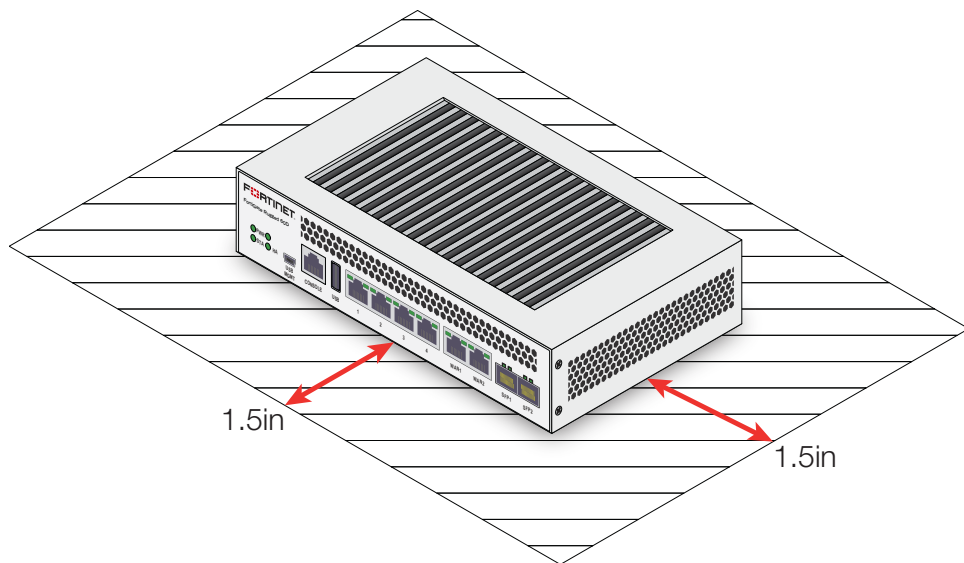
3. Rotate the device until the bottom of the DIN rail bracket sits against the bottom of the DIN rail.



You can now proceed with connecting your FortiGate unit.

### To install the unit on a flat surface:

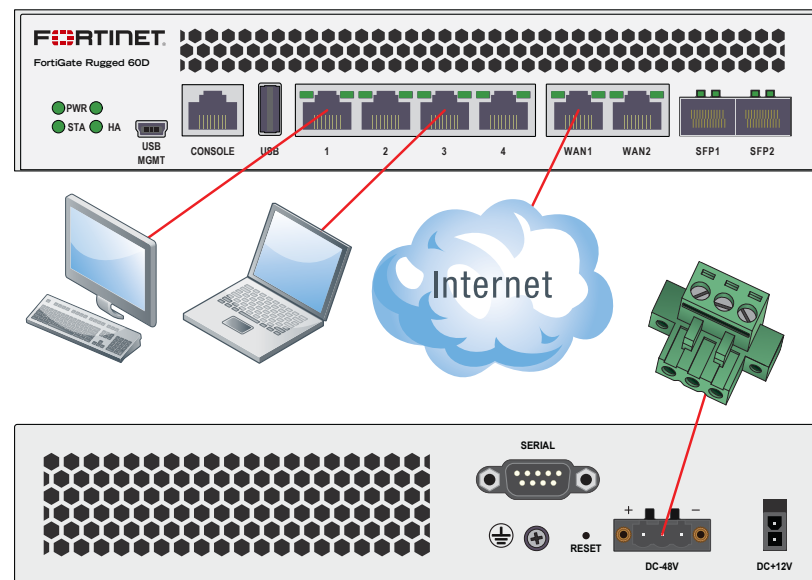
1. Ensure that the surface onto which the FortiGate unit to be installed is clean, level, and stable and that there is at least 1.5 inches (3.8cm) of clearance on all sides to allow for adequate airflow.
2. Attach the provided rubber feet to the bottom of the FortiGate unit.
3. Place the unit in the designated location.



4. Verify that the spacing around the FortiGate unit conforms to requirements and that the unit is level.

You can now proceed with connecting your FortiGate unit.

## Connecting Your Device



Ensure the FortiGate unit is securely mounted or placed on a stable surface. Connect the following to the FortiGate unit:

1. Connect an Ethernet cable into the port labeled WAN1.
2. Connect the other end of your Ethernet cable to your Internet connection.
3. Connect an Ethernet cable to each workstation or laptop PC you wish to connect to the FortiGate unit.
4. Connect power to the unit using the provided DC power adapter, or an appropriate power adapter.

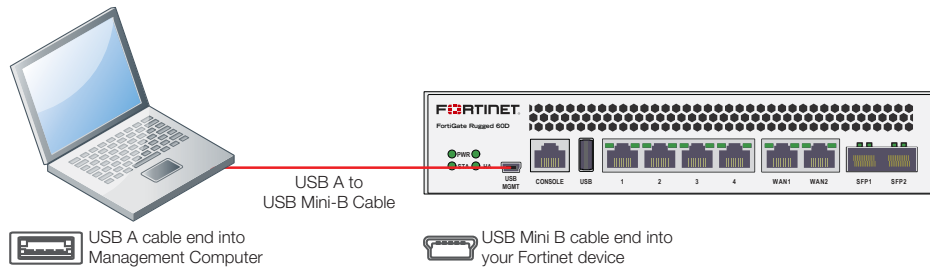
**Caution:** Consult a licensed electrician before connecting this product to a DC power source, or hire a licensed electrician to perform all connections.

**Caution:** Electrostatic discharge (ESD) can damage your Fortinet equipment.

# FortiExplorer

FortiExplorer provides a user-friendly tool that you can use to configure a FortiGate unit over a standard USB connection, rather than using a console cable or Ethernet connection.

**Caution:** Do not connect the USB cable until after FortiExplorer has been installed.



Note: When using FortiExplorer for the first time, ensure the FortiGate unit is using its factory default settings.

## Installing FortiExplorer

FortiExplorer is available for Microsoft Windows XP, Vista, 7, and 8. It is also available for Mac OS X v10.6 Snow Leopard and higher.

### Microsoft Windows Install

1. Double-click the .msi, or .exe file and follow the instructions on-screen.
2. Connect the USB cable to the FortiGate unit and then to the management computer.
3. The FortiExplorer Easy Configuration Utility opens when the USB cable is connected. Select Install the hardware automatically and select Next.
4. After a moment, FortiExplorer will launch.

### Mac OS X Install

1. Double-click the .dmg file and drag the FortiExplorer program file into the Applications folder.
2. Connect the USB cable to the FortiGate unit and then to the management computer.
3. Double-click the FortiExplorer icon to launch the application.

## Configuration Options

With FortiExplorer, you are provided a number of options on how to configure the FortiGate unit, depending on your level of comfort with various interfaces.

## Updating FortiExplorer and Firmware

FortiExplorer may be automatically updated from time to time.

You can also use FortiExplorer to check for new firmware for a FortiGate unit. To check for new firmware, select the FortiGate unit from the device list and select *Check for New Firmware*. FortiExplorer will also monitor firmware updates for your devices and provide an alert when one is available.

# Configuring Your Device

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The FortiGate unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

In addition to FortiExplorer, the FortiGate unit can be configured using the Web-based Manager or the Command Line Interface (CLI).

This section will step you through both methods of configuring the device. Use whichever method you are most comfortable with.

## To connect to the Web-based Manager:

1. Connect one of the FortiGate unit's Ethernet ports to a management computer using the provided Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiGate unit:
  - IP address: *192.168.1.2*
  - Netmask: *255.255.255.0*
3. To access the FortiGate unit Web-based Manager, start a browser of your choice and browse to *https://192.168.1.99*.
4. Type *admin* in the *Name* field, leave the *Password* field blank, and select *Login*.

You can now proceed with configuring your FortiGate unit.

See the FortiOS Handbook for more information (<http://docs.fortinet.com>).

## To Connect to the CLI:

You can configure all FortiGate configuration options from the CLI using *config* commands. The CLI also includes *get*, *show*, *diagnose*, and *execute* commands for performing various configuration and monitoring tasks.

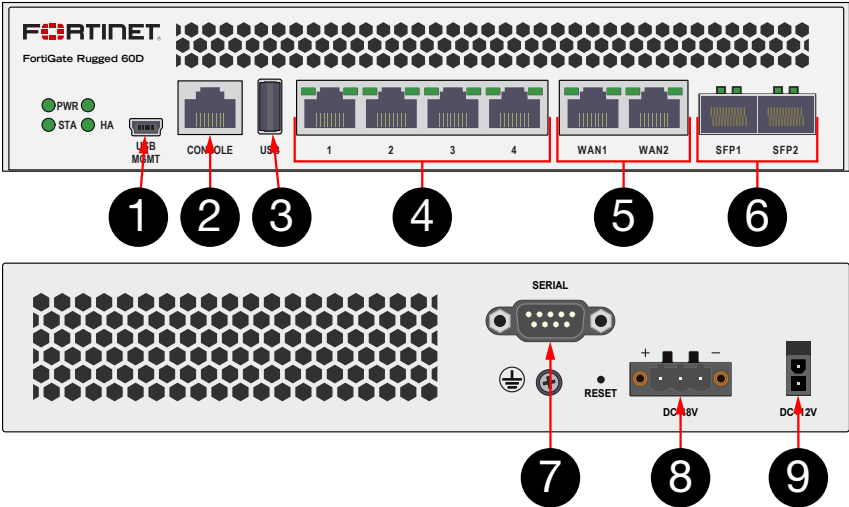
1. Connect the FortiGate unit console port to the management computer using the provided console cable.
2. Start a terminal emulation program on the management computer. Select the COM port and use the following settings:
  - Baud Rate: 9600
  - Data bits: 8
  - Parity: None
  - Stop bits: 1
  - Flow Control: None
3. Press *Enter* on your keyboard to connect to the CLI.
4. Type *admin* in the *Name* field, leave the *Password* field blank, and press *Enter*.

You can now proceed with configuring your FortiGate unit.

See the FortiGate CLI Reference for more information (<http://docs.fortinet.com/fortigate/reference>).



# Technical Specifications

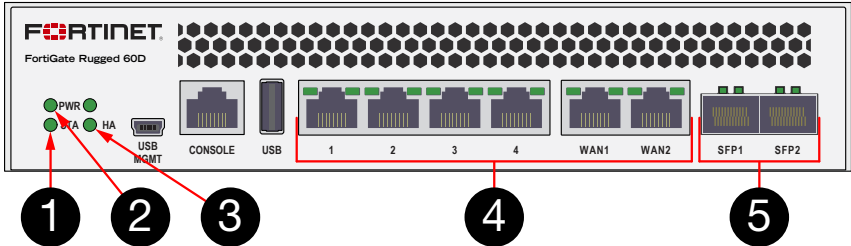


#	Interface	Type	Description
1	USB MGMT	USB mini-B	USB client port for management.
2	Console	RJ-45	Optional connection to the management computer. Provides access to the CLI.
3	USB	USB-A	USB server port for USB key, modem, or management functions.
4	Ethernet Ports 1 - 4	RJ-45	Gigabit Ethernet ports for connection to your network and the Internet.
5	WAN 1 & 2	RJ-45	Gigabit Ethernet Internet connection. Shared with SFP ports 1 & 2.
6	SFP 1 & 2	SFP	1Gbps small form-factor pluggable transceiver. Shared with WAN ports 1 & 2.
7	Serial Port	DB-9	Serial RS-232 communication port.
8	Power		-48V DC @ 0.6A.
9	Power		12V DC @ 2.5A.

**Note:** SFP ports 1 & 2 are shared with WAN ports 1 & 2. When an optical transceiver is inserted into an SFP port and linked up, the corresponding RJ-45 port cannot be used.

**Caution:** SFP ports should use UL listed Optical Transceiver products, rated Laser Class 1, 3.3V DC.

# LED Specifications



#	LED	State	Description
1	STATUS	Green	The unit is operating normally.
		Flashing Green	The unit is booting up.
2	POWER	Green	The unit is on.
		Off	The unit is off.
3	HA	Green	The unit is operating in HA mode.
		Off	The unit is not operating in HA mode.
4	Ethernet Ports Activity	Green	Port is connected.
		Flashing Green	Port is transmitting and receiving data.
		Off	Port is not connected.
4	Ethernet Port Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at 100Mbps.
		Off	Port is connected at 10Mbps not connected.
5	SFP Ports Activity	Green	Port is connected.
		Flashing Green	Port is transmitting and receiving data.
		Off	Port is not connected.
5	SFP Ports Speed	Green	Port is connected at 1Gbps.
		Amber	Port is connected at 100Mbps.
		Off	Port is connected at 10Mbps not connected.

# Cautions and Warnings

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## Environmental specifications

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).*

## Safety

Do not install this equipment in a home or public area accessible to the general population. When installed in schools, this equipment must be installed in a location where access is restricted to trained personnel.

Dans les écoles, ce matériel doit être installé en lieu sûr, de façon à le rendre accessible seulement aux personnels qualifiés.

For DC installations, a readily accessible UL Listed disconnect device (e.g. circuit breaker) with over current protection suitable for local code must be incorporated in the building installation wiring. Equipment is intended for installation in Restricted Access Location. For your safety, qualified service personnel must permanently connect the earthing terminal to the ground using a green-with-yellow conductor, minimum size #14 AWG.

En cas d'alimentation en courant continu (DC en anglais), un dispositif facilement accessible de déconnexion UL (par exemple, disjoncteur) avec protection contre les surintensités adapté à la réglementation locale doit être incorporé dans l'installation électrique du bâtiment. La borne de mise à la terre doit être en permanence reliée au conducteur à rayure verte et jaune de taille minimum #14 AWG. Seul un technicien qualifié est autorisé à effectuer le raccordement.

Battery – Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie – Risque d'explosion si vous remplacez la batterie par un modèle incompatible. Jetez les piles usagées selon les réglementations locales en vigueur. IMPORTANT: Suisse: Annexe 4.10 de SR814.013 s'appliquant aux batteries.

### 警告

本電池如果更換不正確會有爆炸的危險

請依製造商說明書處理用過之電池

Grounding — To prevent damage to your equipment, connections that enter from outside the building should pass through a lightning / surge protector, and be properly grounded. Use an electrostatic discharge workstation (ESD) and/or wear an anti-static wrist strap while you work. In addition to the grounding terminal of the plug, on the back panel, there is another, separate terminal for earthing.

Mise à la terre — Pour éviter d'endommager votre matériel, assurez-vous que les branchements qui entrent à partir de l'extérieur du bâtiment passent par un parafoudre / parasurtenseur et sont correctement mis à la terre. Utilisez un poste de travail de décharge électrostatique (ESD) et / ou portez un bracelet anti-statique lorsque vous travaillez. Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise.

This product has a separate protective earthing terminal provided on the back of the product in addition to the grounding terminal of the attachment plug. This separate protective earthing terminal must be permanently connected to earth with a green with yellow stripe conductor minimum size # 14 AWG and the connection is to be installed by a qualified service personnel.

Ce produit possède une borne de mise à la terre qui est prévu à l'arrière du produit, à ceci s'ajoute la mise à la terre de la prise. Cette séparation protège la borne de mise à la terre qui doit être en permanence reliée au conducteur à rayure verte et jaune de taille minimum #14 AWG. Seul un technicien qualifié est autorisé à effectuer le raccordement.

This product is intended to be supplied by -48 Vdc from Secondary DC Mains Supply or by a UL Listed / IEC Certified ITE AC/DC adaptor rated output 12 Vdc, 2.5A, (marked LPS or Class 2).

Ce produit doit être alimenté par -48 Vdc d'un réseau d'alimentation secondaire en courant continu ou par une alimentation à puissance limitée (UL Listed) ou par une alimentation Class 2 certifié par IEC de 12 Vdc, 2.5A.

# Regulatory Compliance

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## **Federal Communication Commission (FCC) – USA**

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**WARNING:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

## **Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada**

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## **European Conformity (CE) - EU**

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



# Documentation and Links

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The following Fortinet web pages provide information and resources for your Fortinet product:

**1. Fortinet Customer Service & Support:** <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

**2. Fortinet Document Library:** <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products.

**3. Technical Discussion Forums:** <https://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

**4. Training Services:** <http://campus.training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

**5. FortiGuard Threat Research and Response:**

<http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

## Tools and Documentation CD

The tools and documents on this CD are current as of shipping time.

## Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to [techdoc@fortinet.com](mailto:techdoc@fortinet.com).

# Register Your Product

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If you have not registered your Fortinet product, please register your product now.

## Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

## Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

## Registra

La registrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

## Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

## 登録のお願い

本日、フォーティネット製品の登録をしてください。

登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

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您的飞塔产品

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**Toll free:** 1 866 648 4638

**Phone:** 1 408 486 7899

**Fax:** 1 408 235 7737

**Email:** [register@fortinet.com](mailto:register@fortinet.com)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a “work that uses the Library”. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a “work that uses the Library” with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a “work that uses the Library”. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a “work that uses the Library” uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also still fall under Section 6, whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable “work that uses the Library”, as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user’s computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the “work that uses the Library” must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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